



1999 Toxics Release Inventory

WEST VIRGINIA

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	19,557,851	76,885,995	96,443,846
Air Emissions	11,825,861	65,675,117	77,500,978
Surface Water Discharges	7,606,602	303,300	7,909,902
Underground Injection Class I Wells	10	0	10
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	60,897	0	60,897
Other On-site Land Releases	64,481	10,907,578	10,972,059
Off-site Releases (Transfers Off-site to Disposal)*	2,204,395	1,843,870	4,048,265
Total On- and Off-site Releases	21,762,246	78,729,865	100,492,111
Recycled On-site	43,188,478	0	43,188,478
Recycled Off-site	6,236,674	636,350	6,873,024
Energy Recovery On-site	35,264,759	0	35,264,759
Energy Recovery Off-site	12,914,537	613	12,915,150
Treated On-site	114,498,331	26,844,642	141,342,973
Treated Off-site**	7,778,347	400	7,778,747
Quantity Released On- and Off-site***	21,733,723	78,744,207	100,477,930
Total Production-related Waste Managed	241,614,849	106,226,212	347,841,061
Total Non-production-related Waste Managed	80,947	23	80,970

Transfers Off-site for Further Waste Management/Disposal

Recycling	7,418,404	636,350	8,054,754
Energy Recovery	12,774,474	0	12,774,474
Treatment	5,331,252	2,000	5,333,252
Publicly Owned Treatment Works (POTWs)	3,072,147	3	3,072,150
Metals and Metal Compounds*	3,930	3	3,933
Non-metal TRI Chemicals**	3,068,217	0	3,068,217
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	2,351,954	1,844,367	4,196,321
Total Transfers Off-site for Further Waste Management/Disposal	30,948,231	2,482,720	33,430,951

* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

** Transfers to POTWs of non-metals are included in treated off-site waste management activity.

*** Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

**** Transfers reported without a valid waste management code.

For More Information . . .

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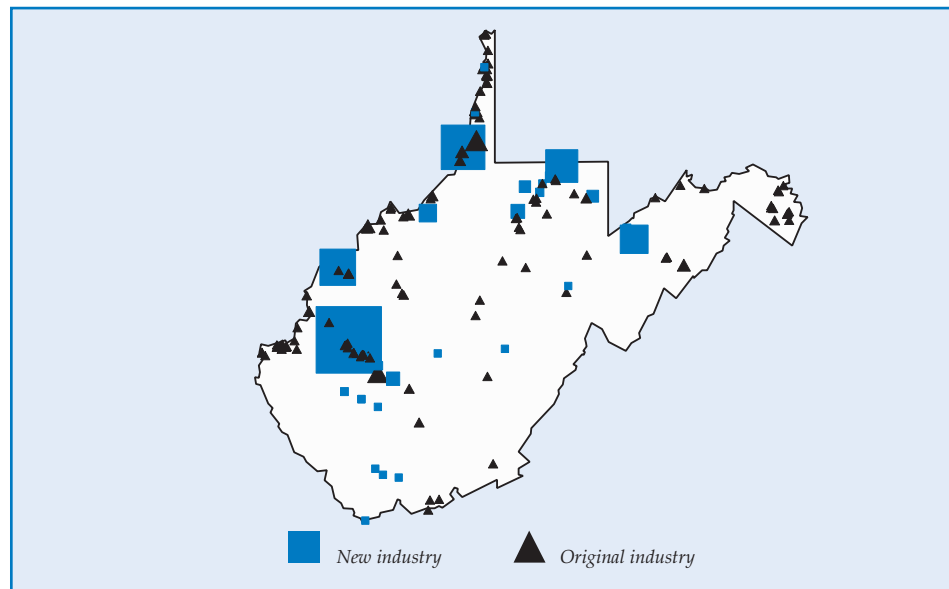
To obtain TRI data use

assistance, call TRI User

Support Service (TRI-US):

(202) 260-1531

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The largest marker in the state map represents the largest facility for on-site releases in the state of West Virginia. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	1,806,928
Square Miles	24,087
Total Facilities	174
Total Forms	903
Form As	54

	Original Industries	New Industries	Total
National Rank for Total On- and Off-site Releases*			
Rank	32	10	21
Pounds	21,762,246	78,729,865	100,492,111
National Rank for Total On-site Releases**			
Rank	31	10	20
Pounds	19,557,851	76,885,995	96,443,846
National Rank for Total Releases within State***			
Rank	32	10	22
Pounds	20,990,520	78,731,730	99,722,250
National Rank for Production-related Waste Managed			
Rank	27	15	28
Pounds	241,614,849	106,226,212	347,841,061

* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

** Includes amounts released at the facility. Excludes amounts transferred to other sites.

*** Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



1999 Toxics Release Inventory

WEST VIRGINIA

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Nitrate compounds	0	6,956,009	0	2,582	0	6,958,591	0	0	0
108-88-3	Toluene	861,123	1,405	0	1,659	286,987	1,151,174	0	240	286,747
--	Glycol ethers	1,089,727	21,056	0	10,753	435	1,121,971	11	0	435
7647-01-0	Hydrochloric acid	1,092,724	250	0	13	0	1,092,987	0	0	0
67-56-1	Methanol	903,905	56,867	0	4,409	204	965,385	0	0	204
--	Manganese compounds	9,144	57,318	0	0	826,053	892,515	72,011	756,970	69,083
75-15-0	Carbon disulfide	749,534	20	0	0	0	749,554	0	0	0
7664-41-7	Ammonia	600,442	68,590	0	44,000	32,103	745,135	482	32,103	0
1330-20-7	Xylene (mixed isomers)	638,987	853	0	172	1,725	641,737	2	240	1,485
78-93-3	Methyl ethyl ketone	567,660	120	0	0	731	568,511	0	0	731

* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

** The chemical ranking is based on the amounts in this column.

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	53,794,203	0	0	0	0	53,794,203	0	0	0
7664-93-9	Sulfuric acid	7,063,507	0	0	0	0	7,063,507	0	0	0
--	Barium compounds	13,043	26,950	0	4,800,825	767,503	5,608,321	5,596	765,506	1,997
7664-39-3	Hydrogen fluoride	3,999,913	0	0	0	0	3,999,913	0	0	0
--	Manganese compounds	43,598	43,094	0	1,127,602	166,000	1,380,294	0	166,000	0
--	Zinc compounds	14,927	12,935	0	1,138,549	177,000	1,343,411	0	177,000	0
--	Copper compounds	3,808	16,158	0	1,061,105	154,000	1,235,071	0	154,000	0
--	Chromium compounds	47,098	576	0	742,695	142,863	933,232	275	142,274	589
--	Nickel compounds	31,328	12,429	0	667,045	120,000	830,802	0	120,000	0
7664-41-7	Ammonia	544,669	183,311	0	0	0	727,980	0	0	0

* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

** The chemical ranking is based on the amounts in this column.



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On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Bayer Corp., New Martinsville, Marshall	303,517	3,079,730	0	0	0	880	3,384,127	34,481	28,471
Du Pont Belle Plant, Belle, Kanawha	138,057	2,817,200	0	0	0	0	2,955,257	0	0
Du Pont Washington Works, Washington, Wood	919,448	426,102	0	0	0	0	1,345,550	3,617	30,413
U.S. Can Co. Plant #20 Weirton, Weirton, Brooke	1,283,928	0	0	0	0	0	1,283,928	0	0
American Woodmark Corp. (Hardy County Facility), Moorefield, Hardy	1,014,492	0	0	0	0	0	1,014,492	0	0
Columbian Chemicals Co., Proctor, Marshall	970,005	0	0	0	0	0	970,005	0	0
Cytec Inds. Inc., Willow Island, Pleasants	412,206	430,093	0	0	0	0	842,299	0	280,720
Ck Witco Corp. Sistersville Plant, Friendly, Tyler	545,595	17,483	0	0	10,805	23	573,906	0	0
Shell Chemical Co., Apple Grove, Mason	465,416	72,202	0	0	0	0	537,618	0	0
PPG Inds. Inc., New Martinsville, Marshall	466,430	8,909	0	0	0	160	475,499	0	62

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection			On-site Releases to Land				Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
American Electric Power John E. Amos Plant, Winfield, Putnam	17,944,581	6,872	0	0	0	1,184,516	19,135,969	1,477,280	363
American Electric Power Mitchell Plant, Moundsville, Marshall	10,614,864	5,608	0	0	0	1,387,755	12,008,227	1,386	102
American Electric Power Mountaineer Plant, New Haven, Mason	8,064,323	3,077	0	0	0	1,300,719	9,368,119	1	779
Allegheny Energy Inc. Fort Martin Power Station, Moundsville, Monongalia	7,560,285	2,032	0	0	0	621,810	8,184,127	0	0
Mt. Storm Power Station, Mount Storm, Grant	5,167,703	4,077	0	0	0	1,618,200	6,789,980	0	0
American Electric Power Philip Sporn Plant, New Haven, Mason	4,440,616	6,787	0	0	0	912,955	5,360,358	0	1,545
American Electric Power Kammer Plant, Moundsville, Marshall	4,036,453	41,633	0	0	0	252,455	4,330,541	2,552	281
Allegheny Energy Inc. Pleasants/Willow Island Power Stations, Willow Island, Pleasants	1,911,394	6,257	0	0	0	1,417,600	3,335,251	0	0
Allegheny Energy Inc. Harrison Power Station, Haywood, Harrison	272,777	1,316	0	0	0	1,866,000	2,140,093	0	0
American Electric Power Kanawha River Plant, Glasgow, Kanawha	1,941,374	2,712	0	0	0	30	1,944,116	240,054	0

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



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WEST VIRGINIA

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Bayer Corp., New Martinsville, Marshall	0	96,093	1,227,350	489,734	4,507,076	35,954	3,538,078	9,894,285	8,683
Du Pont Belle Plant, Belle, Kanawha	0	0	0	1,399,574	8,968,560	386,608	2,955,257	13,709,999	1
Du Pont Washington Works, Washington, Wood	2,611,684	35,676	0	0	14,785,785	563,567	1,354,301	19,351,013	31,280
U.S. Can Co. Plant #20 Weirton, Weirton, Brooke	0	198,273	0	174,419	0	0	1,283,928	1,656,620	0
Weirton Steel Corp., Weirton, Hancock	51,920	0	0	0	216,333	13,158	1,211,345	1,492,756	18,295
Cytex Inds. Inc., Willow Island, Pleasants	18,492,800	0	0	1,759,900	6,294,670	0	1,122,921	27,670,291	0
American Woodmark Corp. (Hardy County Facility), Moorefield, Hardy	22,853	0	0	82,008	0	0	991,637	1,096,498	0
Columbian Chemicals Co., Proctor, Marshall	0	0	0	0	340,000	0	970,005	1,310,005	0
Shell Chemical Co., Apple Grove, Mason	0	0	0	0	4,686,475	0	603,640	5,290,115	0
PPG Inds. Inc., New Martinsville, Marshall	13,119,223	1,097	0	0	754,536	266,629	478,469	14,619,954	220

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
American Electric Power John E. Amos Plant, Winfield, Putnam	0	148,400	0	0	1,600,000	0	20,646,000	22,394,400	0
American Electric Power Mitchell Plant, Moundsville, Marshall	0	15,080	0	0	820,000	0	12,000,400	12,835,480	0
American Electric Power Mountaineer Plant, New Haven, Mason	0	23,070	0	0	650,000	0	9,368,900	10,041,970	0
Allegheny Energy Inc. Fort Martin Power Station, Maidsville, Monongalia	0	0	0	0	0	0	8,174,010	8,174,010	0
Mt. Storm Power Station, Mount Storm, Grant	0	0	0	0	4,190,000	0	6,803,000	10,993,000	0
American Electric Power Philip Sporn Plant, New Haven, Mason	0	87,100	0	0	1,000,000	0	5,357,200	6,444,300	0
American Electric Power Kammer Plant, Moundsville, Marshall	0	98,700	0	0	0	0	4,333,600	4,432,300	0
Allegheny Energy Inc. Pleasants/Willow Island Power Stations, Willow Island, Pleasants	0	0	0	0	11,010,000	0	3,345,000	14,355,000	0
American Electric Power Kanawha River Plant, Glasgow, Kanawha	0	52,900	0	0	200,000	0	2,183,000	2,435,900	0
Allegheny Energy Inc. Harrison Power Station, Haywood, Harrison	0	0	0	0	7,300,000	0	2,138,000	9,438,000	0

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.